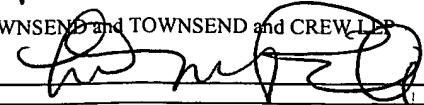


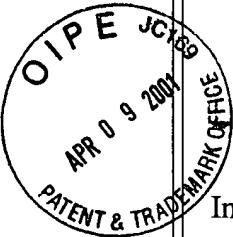
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231, on

April 5, 2001

TOWNSEND and TOWNSEND and CREW, LLP

By: 

#21
Am d/cr 4/14/01
PATENT
Attorney Docket No.: 17634-000320US
Client Reference No.: E-089-97/2



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Brian R. Murphy et al.

Application No.: 09/083,793

Filed: May 22, 1998

For: PRODUCTION OF ATTENUATED
PARAINFLUENZA VIRUS VACCINES
FROM CLONED NUCLEOTIDE
SEQUENCES

Examiner: M. Mosher

Art Unit: 1641

AMENDMENT

RECEIVED

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Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Office Action mailed October 5, 2000, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please amend the specification as follows:

Please replace the paragraph beginning at page 27, line 12, with the following rewritten paragraph:

~~All~~ In one aspect of the invention, mutations occurring in biologically derived, attenuated PIV are identified and introduced individually or in combination into a full-length PIV clone, and the phenotypes of rescued recombinant viruses containing the introduced mutations are determined. In exemplary embodiments, amino acid changes displayed by biologically derived mutant viruses over a wild-type PIV, for example changes exhibited by